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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,910	02/14/2002	Yoshinobu Tanako	219491US3	4561
22850	7590 11/29/2004		EXAMINER	
OBLON, SP	IVAK, MCCLELLAN	HEALY, BRIAN		
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
	•		2883	<del>-</del>

DATE MAILED: 11/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		At _
	Application No.	Applicant(s)
	10/073,910	TANAKO, YOSHINOBU
Office Action Summary	Examiner	Art Unit
	Brian M. Healy	2883
The MAILING DATE of this comm Period for Reply	nunication appears on the cover sheet w	vith the correspondence address
after SIX (6) MONTHS from the mailing date of this c  - If the period for reply specified above is less than thir  - If NO period for reply is specified above, the maximur  - Failure to reply within the set or extended period for r	JNICATION. ions of 37 CFR 1.136(a). In no event, however, may a ommunication. ty (30) days, a reply within the statutory minimum of thi m statutory period will apply and will expire SIX (6) MO eply will, by statute, cause the application to become A ths after the mailing date of this communication, even i	reply be timely filed inty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s)	filed on the request for RCE filed 11/1	2/2004
2a)☐ This action is <b>FINAL</b> .	2b)⊠ This action is non-final.	<u>222004</u> .
<u>'</u>	on for allowance except for formal mat	tters prosecution as to the merits is
	actice under Ex parte Quayle, 1935 C.I	
·		5. 11, 100 0.0. 210.
Disposition of Claims		
4) Claim(s) 1-24 is/are pending in th	• •	
4a) Of the above claim(s) <u>5</u> is/are	withdrawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1,2,4,7-9,11-13 and 15-</u>		
7) Claim(s) <u>2,6,10,14 and 21-24</u> is/a		
8) Claim(s) are subject to res	striction and/or election requirement.	
Application Papers		·
9)☐ The specification is objected to by	the Examiner.	
10)⊠ The drawing(s) filed on <u>14 Februa</u>		objected to by the Examiner.
	bjection to the drawing(s) be held in abeya	
	ling the correction is required if the drawing	
11) The oath or declaration is objected		•
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a cla	im for foreign priority under 35 LLS C	S 110(a) (d) or (f)
a)⊠ All b)□ Some * c)□ None of		3 113(a)-(d) of (f).
	ity documents have been received.	
<u> </u>	ity documents have been received in A	Application No.
	es of the priority documents have beer	
	ational Bureau (PCT Rule 17.2(a)).	Treceived in this National Stage
	ction for a list of the certified copies no	t received.
•		
Attachment(s)		· ·
1) Notice of References Cited (PTO-892)		Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-)449		(s)/Mail Date Informal Patent Application (PTO-152)
Paper No(s)/Mail Date	6) Other:	
S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	HealyOffice Action Summary	Part of Paper No./Mail Date 11242004

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#### **DETAILED ACTION**

#### Allowable Subject Matter

Claims 2, 6, 10, 14 and 21-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. None of the references of record teaches the limitations of claim 1 with the additional limitations of having a groove that is configured to emcompass a cylindrical space occupying at least 50% of an outer circumference of at least one of the plastic fibers. These limitations are recited in claims 2,6,10, and14. Also none of the references of record teaches or suggests a holder (used in the device and method of the independent claims) comprising a material having thermal expansion properties similar to thermal expansion properties of the plastic optical fibers, as is stated in claims 21-23 and the holder comprising ridges at four edges of an upper surfaces in which the groove is disposed with the cover being disposed on the upper surface of the holder with a permeter defined by the ridges, as is stated in claim 24.

Claim 5 has been cancelled by Applicant.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1,2,4, 7-9,11-13, and 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et. al., U.S.P. No. 5,963,699 in view of Shevchuk, U.S.P. No. 6,325,549.

Tanaka et. Al 699' teaches (Figs.1-80 a method for coupling together a pair of plastic optical fibers and the apparatus for performing same comprising; a plurality of (at least two) abutted coated optical fibers 7, a fiber holder 51 including a plurality of grooves for holding optical fiber, a cover 52 which acts to hold down the abutted optical fiber ans a removable clip 26 (Note the clip includes a protrusion 27 that cooperates with a void 29) which applies lateral pressure to the face of the holder/cover and acts to hold the abutted optical fibers wherein the fibers can be inserted and abutted together in the device with the help of a wedge device 24 that holds the holder and cover apart while the fibers can be inserted. Tanaka et. al. 699' also teaches the use of inclined portions 21 in order to easily facilitate the insertion of the fibers in the device.

Tanaka et. al. does not specifically teach the use of abutted plastic optical fibers in a fiber connecting device and method of connecting fibers using same.

Shevchuk, U.S.P. No. 6,325,549 teaches an optical fiber device and method of connecting optical fibers together using same including a pair of abutted plastic optical fibers 12,20 that are clamped together using a clamping means 15 in a holder 14.

Since both Tanaka et. al. and Shevchuk are from the same field of endeavor, i.e. optical fiber splicing and /or connecting devices, the use of clamped plastic optical fibers, used in the device and method of Shevchuk, would have been recognized in the pertinent art of Tanaka et. al.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to substitute the plastic optical fibers used in the device and method of Shevchuk for the optical fibers used by the device and method of Tanaka et. al., for the purpose of abutting and holding together a pair of plastic optical. Although not specifically stated by the reference, the use of fluororesins and other index matching epoxies between optical fiber ends is well known in the art.

The following references are also cited by the Examiner as being pertinent prior art: Arima, U.S.P. No, 6.350,065 (Figs.1-12), Patterson et. al., U.S.P. No. 5,638,477 (Figs.1-14) and Kobayashi et. al., U.S.P. No. 5,694,506 (Figs.1-28).

### Response to Arguments

Applicant's arguments with respect to claims 1-24 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian M. Healy whose telephone number is (571)272-2347. The examiner can normally be reached on Compressed schedule Tues-Thurs 7AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571)272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Brian M. Healy Primary Examiner Art Unit 2883

Brian Healy Primary Examiner